NOT Enter DHP 413107

## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

(currently amended) A current monitoring and interrupting circuit,
 comprising:

an electrically conductive line carrying a DC current;

a sensor that outputs a voltage level indicative of a magnitude of the DC current;

a comparator that compares the voltage level to a reference potential and generates a circuit indicator signal; and

a logic-based current interrupter that controls the current in the line in response to the circuit indicator signal.

- 2. (original) The circuit of claim 1, further including a current switch disposed in the electrically conductive line and connected to the logic-based interrupter.
- (original) The circuit of claim 2, wherein the current switch includes a
  MOSFET.
- 4. (original) The circuit of claim 1, further including a fuse disposed in the electrically conductive line.
- 5. (original) The circuit of claim 1, wherein the electrically conductive line is part of an electrical bus energized to at least 60 VDC.